

CLAIMS

WE CLAIM:

1. A method for producing a respiratory filter in which a granular adsorbent, absorbent, chemisorptive, or catalytic material, particularly activated carbon, is intermixed with (a) melttable polymer(s) and the resulting mixture is heated under pressure and pressed into a molded piece, characterized in that

6 said mixture is heated under pressure in a connecting part for a respirator or fan filter unit or in a connecting part of an adapter for a respirator or fan filter unit and is thereby positively or non-positively pressed into it, and that the connection between said connecting part and the compacted mixture is gastight.

2. An apparatus for carrying out the method according to claim 1 in which a mixture of granular adsorbent, absorbent, chemisorptive, or catalytic material, particularly activated carbon, is heated under pressure in a mold with (a) melttable polymer(s) and pressed into a molded piece, characterized in that said mold is a connecting part for a respirator or fan filter unit or a connecting part (1) of an adapter for connecting a respirator or fan filter unit and that there is a positive and/or non-positive gastight connection between said connecting part (1) and the compacted molded piece (2).

3. The apparatus according to claim 2, characterized in that the connecting part (1) comprises on its inner surface a complete or partial groove or tongue (5) which the compacted molded piece (2) engages in or partially encloses, respectively.

4. The apparatus according to claim 2, characterized in that the connecting part (1) comprises fasteners (3) on its periphery for a detachable gastight connection to a respirator or fan filter unit, or for a gastight connection to an adapter (4) for connecting to a respirator or fan filter unit.

5. The apparatus according to claim 4, characterized in that the connection to an
2 adapter (4) is detachable.

6. The apparatus according to claim 4, characterized in that the fasteners (3) are
2 designed for a snap-in or threaded connection.

7. The apparatus according to claim 2, characterized in that the connecting part (1)
2 is made of a polymer with a higher melting point than the polymer(s) of the molded piece (2), or of
cardboard or metal.